Title (en)

Optical beam axis adjustment apparatus of head lamp for use in vehicles

Title (de)

Steuereinrichtung der Leuchtrichtung eines Kfz-Scheinwerfers

Title (fr)

Dispositif de commande de la direction d'éclairage d'un phare de véhicule

Publication

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Application

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Priority

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Abstract (en)

An object of the present invention is to enable to adequately adjust an optical beam axis of a lamp in response to an inclining angle of a main body of a vehicle in a back and forth direction in an optical beam axis adjustment apparatus of a head lamp for use in vehicle. Upward and downward movements of front and rear wheels are individually sensed by use of respective stroke sensors 1 and 2. An angular detecting unit 3a detects the inclining angle of the main body of the vehicle in the back and forth direction depending upon the output signals produced from the stroke sensors while a traveling sensing unit 3b senses a traveling status and a stopping status of the vehicle. A control unit 3 adjusts the optical beam axis of the head lamp 5 through an actuator 4 during stopping of the vehicle, corresponding to the detected angular data produced from the stroke sensors 1 and 2; and averaged during a certain specified period which precedes the adjustment. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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Cited by

FR2803567A1; FR2810282A1; EP1195292A1; FR2814996A1; FR2831116A1; DE10249631B4; GB2357333A; GB2357333B; CN102328617A; EP2402212A3; US6670723B2; US8820986B2

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